

Welcome to DialogClassic Web(tm)
*** DIALOG HOMEBASE(SM) Main Menu ***

Information:

1. Announcements (new files, reloads, etc.)
2. Database, Rates, & Command Descriptions
3. Help in Choosing Databases for Your Topic
4. Customer Services (telephone assistance, training, seminars, etc.)
5. Product Descriptions

Connections:

6. DIALOG(R) Document Delivery
7. Data Star(R)

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/H = Help

/L = Logoff

/NOMENU = Command Mode

Enter an option number to view information or to connect to an online service. Enter a BEGIN command plus a file number to search a database (e.g., B1 for ERIC).

?

B IGOR705

```
>>>          77 does not exist
>>>1 of the specified files is not available
      17oct03 22:49:05 User268082 Session D45.1
      $0.00    0.145 DialUnits FileHomeBase
      $0.00  Estimated cost FileHomeBase
      $0.06  INTERNET
      $0.06  Estimated cost this search
      $0.06  Estimated total session cost  0.145 DialUnits
```

SYSTEM:OS - DIALOG OneSearch

```
File  2:INSPEC 1969-2003/Oct W1
      (c) 2003 Institution of Electrical Engineers
*File  2: Alert feature enhanced for multiple files, duplicates
removal, customized scheduling. See HELP ALERT.
File  9:Business & Industry(R) Jul/1994-2003/Oct 17
      (c) 2003 Resp. DB Svcs.
File  15:ABI/Inform(R) 1971-2003/Oct 13
      (c) 2003 ProQuest Info&Learning
*File  15: Alert feature enhanced for multiple files, duplicate
removal, customized scheduling. See HELP ALERT.
File  16:Gale Group PROMT(R) 1990-2003/Oct 16
      (c) 2003 The Gale Group
*File  16: Alert feature enhanced for multiple files, duplicate
removal, customized scheduling. See HELP ALERT.
File  20:Dialog Global Reporter 1997-2003/Oct 17
      (c) 2003 The Dialog Corp.
File  35:Dissertation Abs Online 1861-2003/Sep
      (c) 2003 ProQuest Info&Learning
File  65:Inside Conferences 1993-2003/Oct W2
      (c) 2003 BLDSC all rts. reserv.
File  99:Wilson Appl. Sci & Tech Abs 1983-2003/Sep
      (c) 2003 The HW Wilson Co.
File 148:Gale Group Trade & Industry DB 1976-2003/Oct 17
      (c) 2003 The Gale Group
*File 148: Alert feature enhanced for multiple files, duplicate
```

removal, customized scheduling. See HELP ALERT.

File 160:Gale Group PROMT(R) 1972-1989
(c) 1999 The Gale Group

File 233:Internet & Personal Comp. Abs. 1981-2003/Jul
(c) 2003, EBSCO Pub.

File 256:SoftBase:Reviews,Companies&Prods. 82-2003/Sep
(c)2003 Info.Sources Inc

File 275:Gale Group Computer DB(TM) 1983-2003/Oct 16
(c) 2003 The Gale Group

File 347:JAPIO Oct 1976-2003/Jun(Updated 031006)
(c) 2003 JPO & JAPIO

***File 347: JAPIO data problems with year 2000 records are now fixed.**

Alerts have been run. See HELP NEWS 347 for details.

File 348:EUROPEAN PATENTS 1978-2003/Oct W02
(c) 2003 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20031016,UT=20031009
(c) 2003 WIPO/Univentio

File 474:New York Times Abs 1969-2003/Oct 17
(c) 2003 The New York Times

File 475:Wall Street Journal Abs 1973-2003/Oct 17
(c) 2003 The New York Times

File 476:Financial Times Fulltext 1982-2003/Oct 18
(c) 2003 Financial Times Ltd

File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
(c) 2002 The Gale Group

***File 583: This file is no longer updating as of 12-13-2002.**

File 610:Business Wire 1999-2003/Oct 17
(c) 2003 Business Wire.

***File 610: File 610 now contains data from 3/99 forward.**

Archive data (1986-2/99) is available in File 810.

File 613:PR Newswire 1999-2003/Oct 17
(c) 2003 PR Newswire Association Inc

***File 613: File 613 now contains data from 5/99 forward.**

Archive data (1987-4/99) is available in File 813.

File 621:Gale Group New Prod.Annou.(R) 1985-2003/Oct 17
(c) 2003 The Gale Group

File 624:McGraw-Hill Publications 1985-2003/Oct 17
(c) 2003 McGraw-Hill Co. Inc

***File 624: Homeland Security & Defense and 9 Platt energy journals added**

Please see HELP NEWS624 for more

File 634:San Jose Mercury Jun 1985-2003/Oct 16
(c) 2003 San Jose Mercury News

File 636:Gale Group Newsletter DB(TM) 1987-2003/Oct 16
(c) 2003 The Gale Group

File 810:Business Wire 1986-1999/Feb 28
(c) 1999 Business Wire

File 813:PR Newswire 1987-1999/Apr 30
(c) 1999 PR Newswire Association Inc

Set Items Description
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S (GREENE (2N) SCOTT) (10N) MARGIN (10N) SENSITIVITY
121109 GREENE
1004090 SCOTT
1129153 MARGIN
600442 SENSITIVITY
S1 0 (GREENE (2N) SCOTT) (10N) MARGIN (10N) SENSITIVITY

?

S (GREENE (2N) SCOTT)
121109 GREENE
1004090 SCOTT
S2 136 (GREENE (2N) SCOTT)
?

S 1 AND MARGIN AND SENSITIVITY
Processing
Processing
Processed 10 of 28 files ...
Processing
Processing
Processing
Processing
Processed 20 of 28 files ...
Processing
Completed processing all files
32443765 1
1129153 MARGIN
600442 SENSITIVITY
S3 14609 1 AND MARGIN AND SENSITIVITY

?

S S1 AND MARGIN AND SENSITIVITY AND TRANSFERS
0 S1
1129153 MARGIN
600442 SENSITIVITY
444312 TRANSFERS
S4 0 S1 AND MARGIN AND SENSITIVITY AND TRANSFERS
?

S BLACKOUTS AND (FLOW (2N) GATE?) AND (POWER (2N) TRANSFER???)

Processing
Processed 10 of 28 files ...
Processing
Processed 20 of 28 files ...
Completed processing all files
31370 BLACKOUTS
3223999 FLOW
1707175 GATE?
3299 FLOW (2N) GATE?
7973613 POWER
3877669 TRANSFER???

38148 POWER (2N) TRANSFER???

S5 2 BLACKOUTS AND (FLOW (2N) GATE?) AND (POWER (2N) TRANSFER???)

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T S5/KWIC/1-2

5/KWIC/1 (Item 1 from file: 148)
DIALOG(R) File 148: (c)2003 The Gale Group. All rts. reserv.

... Helical box is said to be more efficient than the worm type, resulting in better **power transfer** to the screw, less wasted energy converted into heat from friction, and less abrasive gear...rates and weld-line placement.

Mold nozzles with interchangeable tips provide flexibility in design and **gate** cosmetics. Material **flow** channels from 1/4- to 3/4-in. diam.

meet requirements of large and small...

5/KWIC/2 (Item 1 from file: 348)
DIALOG(R) File 348:(c) 2003 European Patent Office..All rts. reserv.

...SPECIFICATION a sensitive operation, especially with machines larger than several kilowatts. For this reason, system load **transfers** between **power** sources **have** required that the old power source be disconnected before the new power source is connected. This break...

...further object of the invention to provide automatic one-way transfers to limit or control **self power** seeking operations.

It is still a further object of the invention to minimize electrical stress...

...AMSG is a make-before-break switch that provides uninterrupted power to the system load **during** the **transfer** while minimizing voltage and current jitter. Make-before-break switching could previously be used when ...load terminals.

A matrix of SCRs is used to transfer the load between the two **power** sources. The switches to be gated are determined by the relative timing relationships of the...

...new voltage waveforms. Altering the pattern of the switches gated and controlling the direction of **energy flow**, allows jumping, without power interruption, between separate sources.

The AMSG chooses one phase voltage at...

...to the load phase, +/- any error due to a slight differences in frequency. Therefore, when **transferred** between **power** sources the load **will** never **see** a voltage or current jitter greater than approximately a 60 degree shift.

The AMSG is...power source supplies energy to the load at any given time. When the load is **transferred** from one **power** source to the other, the **power** source that supplies energy to the load before the time of transfer is called the "old" source. The **power** source that the load is **being transferred** to is called the "new" source.

2. LOAD

The intended load in this specific design...

...the SCRD selected by the control unit or toggles the SCRDs to cause a load **transfer** from one **power** source to the other.

5 . COINCIDENCE DETECTOR

The coincidence detector (CD) is a part of the SCR steering mechanism. The CD continually monitors...engage should a transfer between the two power sources be initiated. This determination is constantly **updated**, allowing load **transfers** to be made instantaneously, since no additional processing is needed when the transfer is initiated.

The CD is necessary because the two **power** sources are not always synchronized. This lack of synchronization may exist because the frequency and...

...difference between the voltage waveforms of the two power sources (see Fig. 11).

When a **transfer** of the load from one **power** source to the other is initiated, it is necessary to maintain the three voltage waveforms and the...switch (section 10) and the control unit (section 11). This signal initiates an automatic load **transfer** between **power** sources if an event is **detected**. The **control** unit has the ability to enable and

disable the ED.

10. DRIVER SWITCH

The driver...

...in the RAM for supplying operational parameters and other information necessary to carry out customized **power transfer** operations. As will be described later, the **programs** of stored instructions carry out operations such as the transfer on detection of event which...

...the event detector (ED) only when both power sources are in the go state, allowing a load **transfer** from the old to new power source if an event occurs. When a load **transfer** takes place due to an event, the control unit is informed via the event signal...

...to this source would be undesirable.

C. Transfer Recovery

The control unit identifies the old and new **power** sources by looking at which SCR driver (...lines of the new source's connection configuration (see section 11A; operation).

When a load **transfer** between **power** sources occurs, the old and new sources **are** swapped. Consequently, the "new" new source is automatically selected by the control unit for comparison...

...information to determine the appropriate SCR gating direction.

When an event signal originates a load **transfer** between **power** sources, the control unit is **initially** driving **only** one SCR on each leg of the new source's connection configuration. The control unit...

...may or may not be selected (see section 11B). The MC can also initiate load **transfers** between the **power** sources. Manual load transfers **are** allowed at **any** time, regardless of the status of the power sourced (see section 11A).

In all cases...

...power source.

Fig. 15 shows the two power sources connected to the load. Prior to a load **transfer**, the old source is supplying energy to the load. Therefore, both SCRs on each line...of operational steps to carry out the transfer of connection of the load from an old **power** source to a new power source based upon the detection of a failure event. The...

...the carrying out and completion of the transfer of connection of the load device from the old **power** source to the new power source.

In the wait loop portion of Fig. 31, Step...they will begin conducting current thereby making their corresponding paths bidirectional.

In this manner, the **transfer** of **power** sources from source 2 to source 1 is completed, as is provided by Step 46.

When a load transfer takes place, several different...

...tolerated.

The AMSG approach could reduce distribution outages caused by equipment failures for power utilities. **Blackouts** that have been caused by the loss of power could be handled in a very...necessary goal that has large economic benefits.

The AMSG design provides make-before-break AC **power** switching, asynchronous **transfer** of **power** between unsynchronized polyphase sources, and a reduction in switching noise and disturbance to the system

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